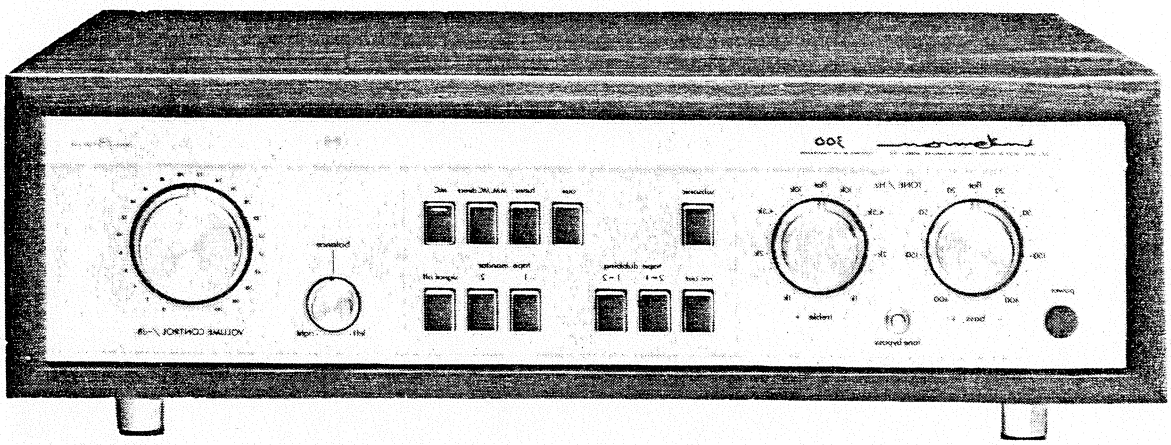
SERVICE MANUAL

DC STEREO CONTROL PREAMPLIFIER C-300



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REMARKS

The C-300 diversifies the original C-300 and C-300KA, whose difference exists in the printed circuit board of the equalizer amp, flat amp, tone control, protector, muting andregulator circuit board.

Model No. / Circuit	C-300	C-300KA
Equalizer Amp.	PB-1353	PB-1388
Flat Amp., Tone Control	PB-1354	PB-1389
Protector, Muting, Regulator	PB-1355	PB-1390

In this manual the parts, which differes depending on destination and mains voltage, are classified and indicated as follows:

*NOTES

J		100V for Japan
A	AZ:	120V(With Line Voltage Selector) for U.S.A., South Asia, East Asia
	AK:	220V(With Line Voltage Selector) for Europe, South Asia, East Asia
	AG:	240V(With Line Voltage Selector) for England, Australia

C-300 ALIGNMENT RROCEDURES

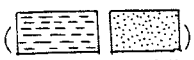
1) Alignment of Regulator

Setting Conditions - Volume Control: Minimum
Balance Control: Center
Filter Switch: Off
Tone Control: Flat

(1) Put on the Power Switch and after 30 seconds adjust VR501ab (positive-going, L&R) and VR502ab (negative-going, L&R) respectively to make the voltage of terminals (+32V and -32V/C-300, +33.5V and -33.5V/C-300KA) shown in the (PB-1355/C-300, PB-1390/C-300KA).
Remarks: Reconfirm and readjust 10 minutes after the Power Switch has been put on.

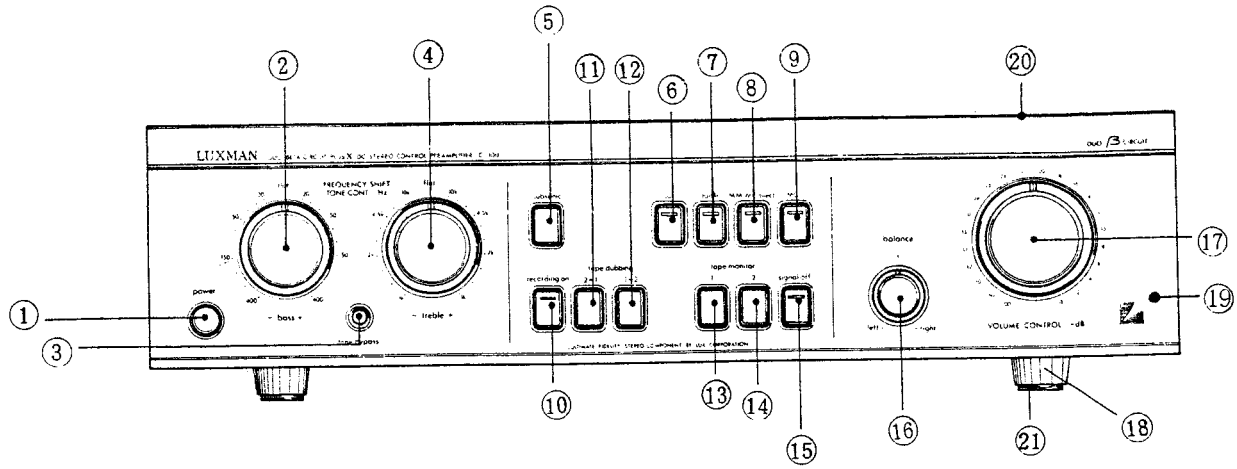
2) Alignment of PRE OUT, MC OUT and OFF SET

(1) Connect a high sensitivity DC volt meter to the PRE OUT terminals shown in the (PB-1354/C-300, PB-1389/C-300KA) and adjust VR303ab(L&R) to make the volt meter 0V after alignment of the regulator.
Remarks: Reconfirm and readjust 10 minutes after the Power Switch has been put on.

(2) Connect a high senstivity DC volt meter to the MC OUT pattern () shown in the PB-1355 and adjust VR101ab(L&R) to make the volt meter -0.05V (-50mV). C-300 only.
Remarks: Readjust at +0.2V(+200mV) 10 minutes after the Power Switch has been put on.

PARTS LIST (Cosmetic)

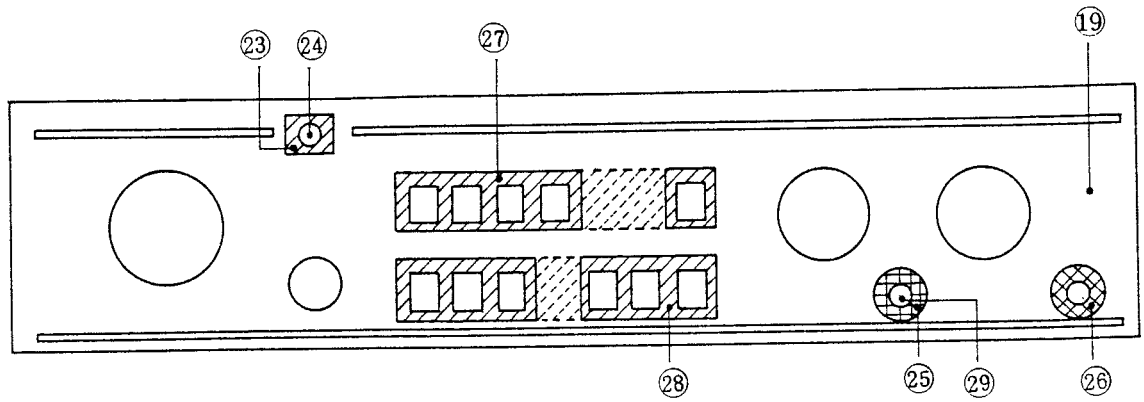
FRONT VIEW



SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
	(Knob)		
1	WJ1090	Power Switch	
*2	WH1120-1	Bass Control	AZ.J
*2	WH1120-2		AG.AK
*3	WK1120-1	Tone Bypass	AZ.J
*3	WK1120-2		AG.AK
*4	WH1120-1	Treble Control	AZ.J
*4	WH1120-2		AG.AK
5	WH1125-2	Subsonic	
6	WH1125-1	AUX	
7	WH1125-1	Tuner	
8	WH1125-1	MM, MC, Direct	
	(Foot)		
18	WN1022	Foot, Metal	
21	WN1019	Foot, Felt	

SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
	(Knob)		
9	WH1125-1	MC	
10	WH1125-1	Recout	
11	WH1125-2	Tape Dubbing 2 1	
12	WH1125-2	Tape Dubbing 1 2	
13	WH1125-2	Tape Monitor 1	
14	WH1125-2	Tape Monitor 2	
15	WH1125-2	Signaloff	
*16	WH1122-1	Balance Control	AZ.J
*16	WH1122-2		AG.AK
*17	WH1121-1	Volume Control	AZ.J
*17	WH1121-2		AG.AK
	(Enclosures)		
*20	WB1090	Wooden Case	AZ.J
	UG1030	Bonnet	AG.AK
	UE1110	Botom Plate	AG.AK

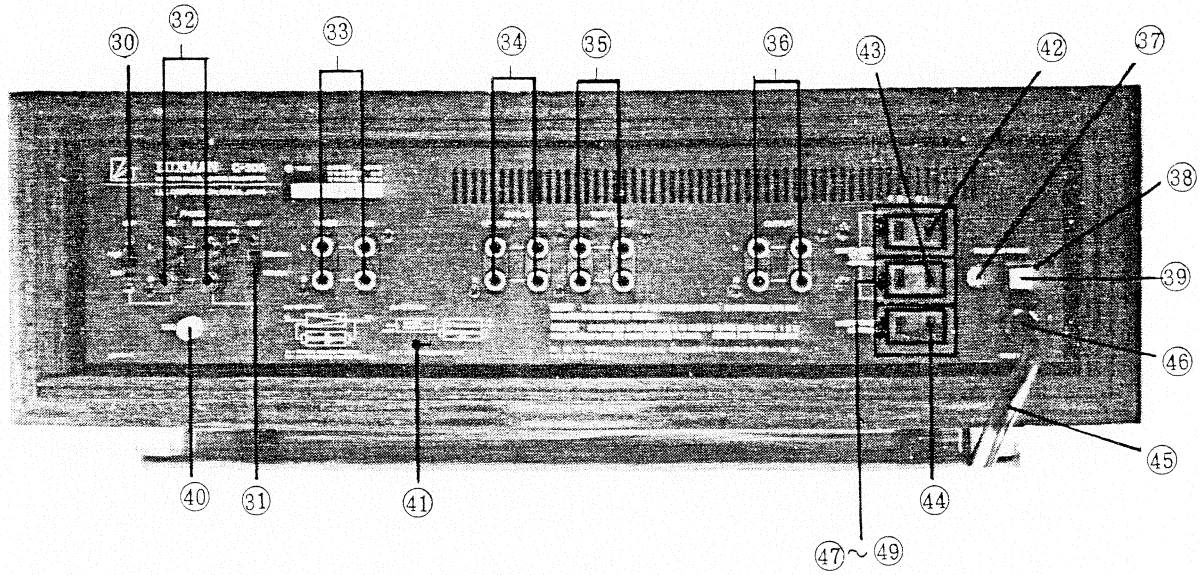
FRONT PANEL Ass'y



SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
(Front Panel Ass'y)			
*19	WA1221-1	Front Panel	J
*19	WA1221-2	Front Panel	A
23	WG1019	Pilot Acrylic	
24	WG1011	Pilot, Cover	
*25	WZ1133-1	Metal Escutcheon	AZ.J

SYMBOL NO.	STOCK NO.	DESCRIPTION	REMARK
(Front Panel Ass'y)			
*25	WZ1133-2	Metal Escutcheon	AG.AK
26	WE1051	Protector	
27	WZ7042	Knob Guide	
28	WZ7042	Knob Guide	
29	WE1036	Protector	

REAR VIEW



SYMBOL NO	STOCK NO	DESSCIPTION	REMARK
		(Terminal)	
32	AT0131	Input 4 Phono MM MC	
33	AT0130	Input 4 P Tuner, AUX	
34	AT0130	Input 4 P Tape-Ⅱ	
35	AT0130	Input 4 P Tape-I	
36	AT0130	Output 4 P	
40	AG0110	G N D	
		(Switch, Cover)	
30	SS0014	Slide SSB-02201	
31	SS0014	Slide SSB-02201	
47	UJ1092	Cover 1092	AG.AK
48	UJ1092	Cover 1092	AG.AK
49	UJ1092	Cover 1092	AG.AK
		(Rear Panel)	
* 41	UC1191-1	Rear Panel 1191-1	J
* 41	UC1191-2	Rear Panel 1191-2	A

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Line Phase Sensor) J Only	
* 37	AL0001	Neon Lamp	J
* 38	UZ1244	L. P. S. Housing	J
* 39	UZ1245	L. P. S. Terminal	J
		(Bushing. Power Cord)	
* 45	BK0019	Power Cord UP-720-001	AZ
* 45	BK0022	Power Cord C-2-461-B	AK
* 45	BK0023	Power Cord SAAmini	AG
* 45	BK0048	Power Cord VKF2.0MM	J
* 46	BU0033	Bushing SR-4N-4	AZ,AK
* 46	BU0039	Bushing SR-5N-4	AG
* 46	BU0080	Bushing 5KN-4	J
		(Extra AC Outlet)	
42	AC0050	Switched	
43	AC0050	Switched	
44	AC0050	Unswitched	

MECHANISM

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Potentiometer)	
VR001	RV0270	250 KMKN Blance Control	
VR002	RV0269	70 K S x2 Volume Control	
VR301	RV0271	150 K S x2 Bass Control	
VR302	RV0272	19 K S x2 Treble Control	
		(Switch, Flexible Cable)	
S001	SS0014	MC Phono Impedance	
S002	SS0014	MM Phono Impedance	
*S003	SP0090	Push Power Switch	A
	SP0172	Push Power Switch	J
S201	SP0173	Push Input Selector	
S301	SP0189	Push Tone Bypass(C-300)	
	SP0176	Push Tone Bypass(C-300KA)	
S801~ S804	SP0175	Rec, Tape 1, Tape 2, Pre	
S1001~ S1002	SP0175	Dubbing	
S901	SP5030	Push Subsonic	
S301	SZ0015	F. Cable Tone Bypass(C-300)	
	SZ0013	F. Cable Tone Bypass(C300KA)	
S1001	SZ0014	F. Cable Tape Dubbing	
S1002	SZ0014	F. Cable Tape Dubbing	
		(Power Transformer)	
*	PT2531	P-2531	J
*	PT2534	P-2534	A
		(Line Voltage Selector) A ONly	
*	AC0013	Socket M-1625	A
*	AC0014	Plug P-2120	A
		(Packing Material)	
*	XA1277	Carton 1277 (C-300)	AZ
*	XA1278	Carton 1278 (C-300)	AK,AG
*	XA1277J	Carton 1277J(C-300)	J
*	XA1306	Carton 1306 (M300KA)	J
*	XD1028	Pad 1028	AZ,J
*	XD1029	Pad	AK,AG
*	MA0137	Owner's manial	J
*	MA0180	Owner's manial	A

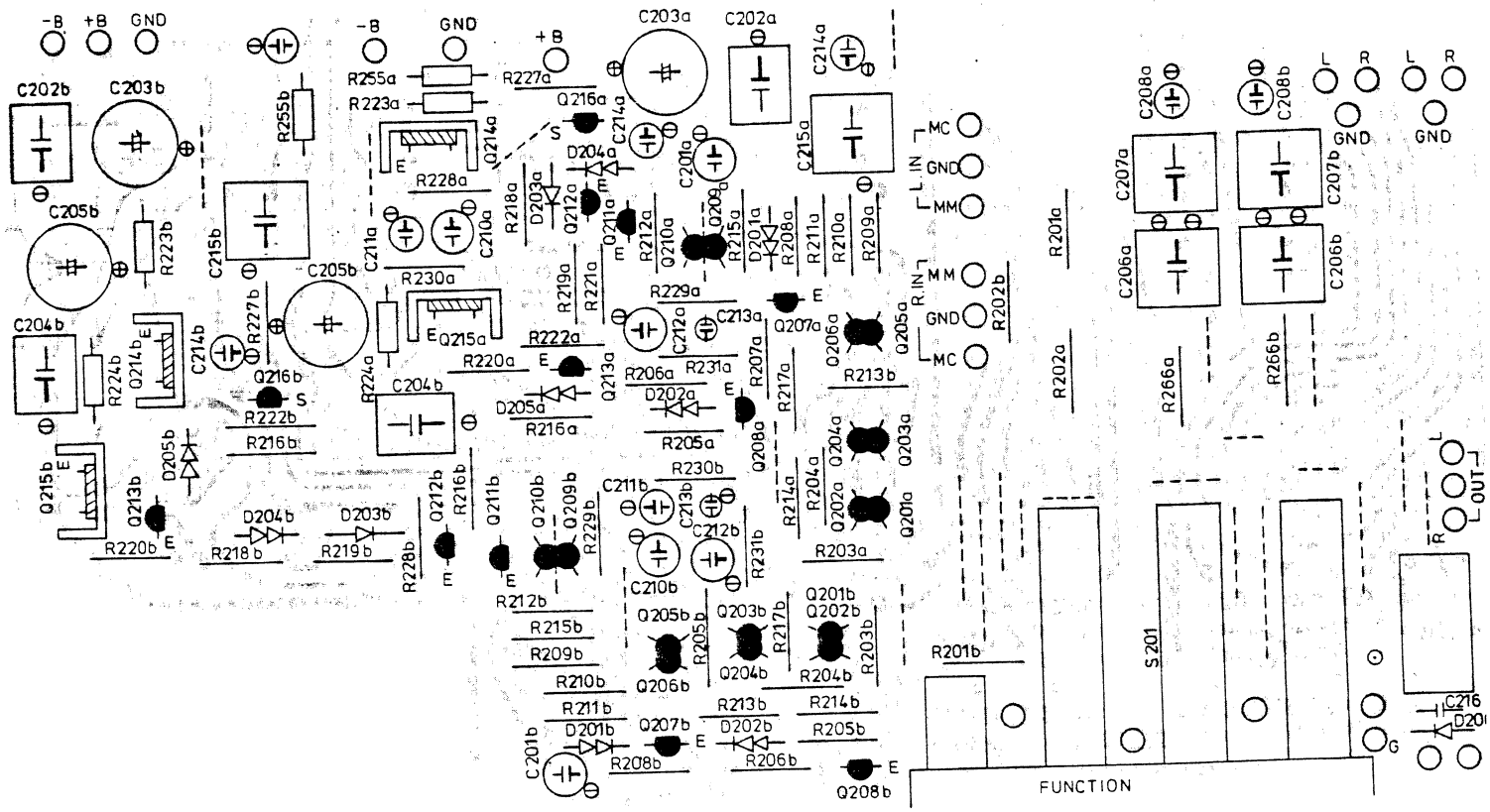
SYMBOL NO	STOCK NO	DESCRIPTION	REMAR
		(Resistor, Capacitor)	
C001	CK0159	0.1 F 25 WV Ce	
C002	CU0010	0.47 F 250 WV AC	
R001	RB0158	100 0.25 W RD	
R002	RB0158	100 0.25 W RD	
R003	RD0100	2.2 M 0.5 W RD	
		(Lamp, Holder)	
LA	AL0065	Lamp 75mA12V(B7-5)	
LA	WZ0003	Lamp holder White	
		(Fush holder, Fuse)	
*F001	AH0016	Fuse holder X-N1157	J
*F001	AH0019	Fuse holder X-N1153	A
*F002	AH0016	Fuse holder X-N1157	J
*F002	AH0019	Fuse holder X-N1153	A
*F003	AH0016	Fuse holder X-N1157	J
*F003	AH0019	Fuse holder X-N1153	A
*F004	AH0016	Fuse holder X-N1157	J
*F004	AH0019	Fuse holder X-N1153	A
*F005	AH0016	Fuse holder X-N1157	J
*F005	AH0019	Fuse holder X-N1153	A
*F006	AH0016	Fuse holder X-N1157	J
*F006	AH0019	Fuse holder X-N1153	A
*F001	BF0115	Fuse MF60NR-2A	J
*F001	BF0208	Fuse 5 X 20 1A(T)	AZ
*F001	BF0206	Fuse 5 X 20 0.5A(T)	AK,A
*F002	BF0402	Fuse FGLBO-125V-1.5A	J
*F002	BF0206	Fuse 5 X 20 1A(T)	A
*F003	BF0402	Fuse FGLBO-125V-1.5A	J
*F003	BF0206	Fuse 5 X 20 1A(T)	A
*F004	BF0402	Fuse FGLBO-125V-1.5A	J
*F004	BF0206	Fuse 5 X 20 1A(T)	A
*F005	BF0402	Fuse FGLBO-125V-1.5A	J
*F005	BF0206	Fuse 5 X 20 1A(T)	A
*F006	BF0113	Fuse MF60NR-1A	J
*F006	BF0206	Fuse 5 X 20 1A(T)	A

Notes

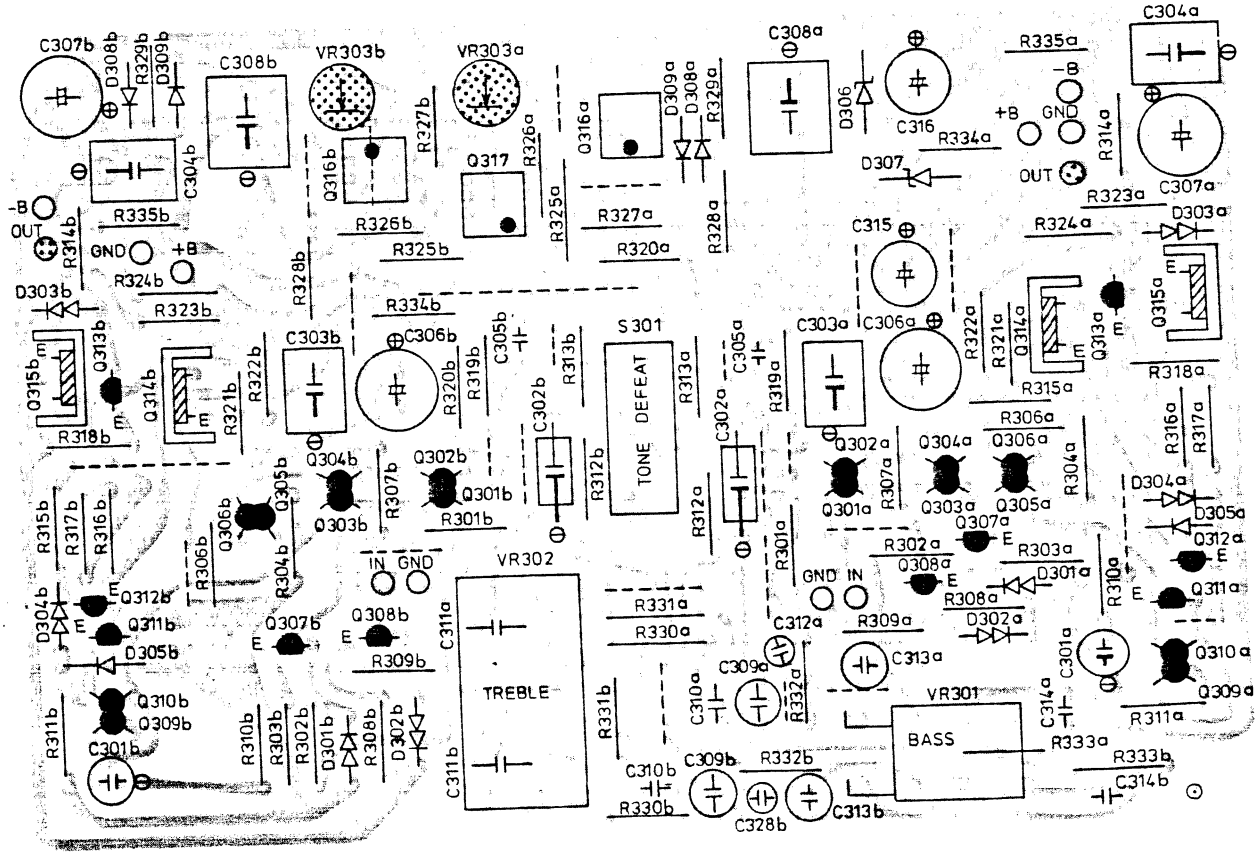
Flexible Cable Switch A'ssy Canbe disintegrated into 3 components-Switch Body, Flexible Cable, Switch Mechanism. In this list, the respective disintegrated Components are classified into the categories

Switch Body - PCB Unit Parts List
Flexible Cable - Mechanism Parts List
Switch Mechanism - Mechanism Parst List

PB-1353·····(Equalizer) C-300 only



PB-1354·····(Flat, Tone Control) C-300 only



PARTS LIST ·····(P. C. B)

REMARKS

Capacitor: My...Mylar, El...Electrolytic, St...Styrol, Ce...Ceramic
Mi...Mica, Ta...Tantalum, Lp...Line pass(AC Cap.)
Tm...Trimmer, Ac...AC Capacitor, Fi...Film Cap.
Resistor: Rd...Carbon, Rc...Cement, Rm...Metal Film, Rf...Flame proof
Ro...Oxid Metal,

PB-1353·····(Equalizer) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Capacitor)	
C201	CQ1206	6800 PF 50 WV St	
C202	CQ1201	560 PF 50 WV St	
C203	CE1970	220 μF 35 WV AR El	
C204	CQ1201	560 PF 50 WV St	
C205	CE1970	220 μF 35 WV AR El	
C206	CQ2010	0.22 μF 125 WV Fi	
C207	CQ2010	0.22 μF 125 WV Fi	
C208	CQ1201	560 PF 50 WV St	
C209	CQ1220	100 PF 50 WV St	
C210	CQ1213	6200 PF 50 WV St	
C211	CQ1220	680 PF 50 WV St	
C213	CQ1200	101 PF 50 WV St	
C214	CQ1201	560 PF 50 WV St	
C215	CQ2010	0.22 μF 125 WV Fi	
C216	CK0159	0.1 μF 25 WV Ce	
C242	CQ1204	1800 PF 50 WV St	
		(Diode)	
D201	TV0030	KB-265C4	
D202	TV0030	KB-265C4	
D203	TD0214	US-1035	
D204	TV0030	KB-265C4	
D205	TV0030	KB-265C4	
D206	TD0073	US-1035	
		(Resistor) Unit: Ω	
R201	RD0446	47 K 0.33 W RD	
R202	RD0442	100 K 0.33 W RD	
R203	RD0442	100 K 0.33 W RD	
R204	RD0452	15 K 0.33 W RD	
R205	RD0448	33 K 0.33 W RD	
R206	RS1281	100 0.33 W Rf	
R207	RD0448	33 K 0.33 W RD	
R208	RD0466	1 K 0.33 W RD	
R209	RD0479	82 0.33 W RD	
R210	RD0464	1.5 K 0.33 W RD	
R211	RD0479	82 0.33 W RD	
R212	RD0489	10 0.33 W RD	
R213	RD0447	39 K 0.33 W RD	
R214	RB0180	820 0.25 W RD	
R215	RS1273	47 0.33 W RD	

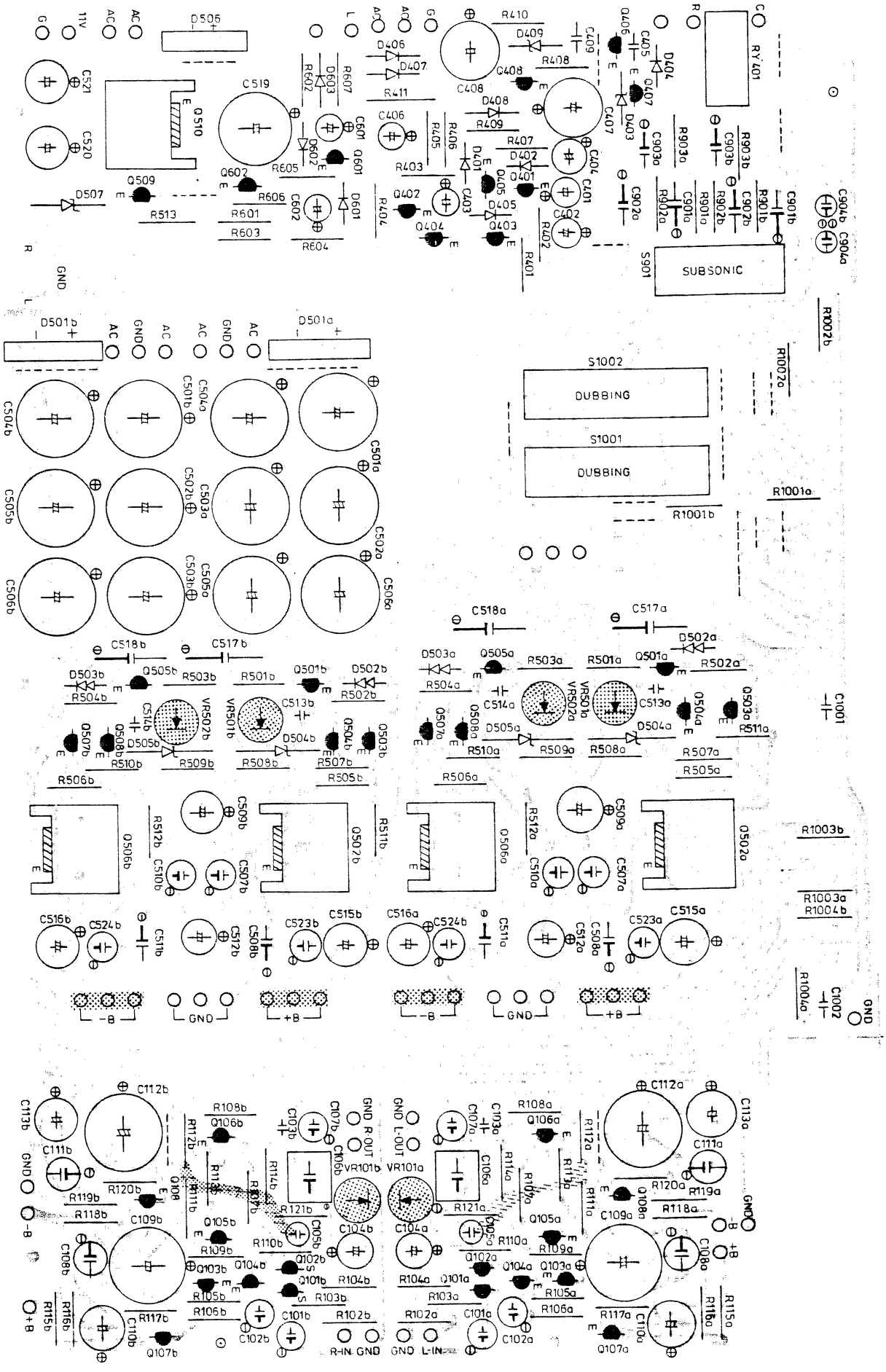
SYMBOL NO	STOCK NO	DESCRIPTION	REMAI
		(FET, Transistor)	
Q201	TF0020	2SK-163-L-PAIR	
Q202	TF0020	2SK-163-L-PAIR	
Q203	TF0020	2SK-163-L-PAIR	
Q204	TF0020	2SK-163-L-PAIR	
Q205	TR5005	2SA-970	
Q206	TR5005	2SA-970	
Q207	TR5005	2SA-970	
Q208	TR0236	2SC-2229	
Q209	TR0091	2SA-836	
Q210	TR0091	2SA-836	
Q211	TR0091	2SA-836	
Q212	TR0237	2SA-949	
Q213	TR0236	2SC-2229	
Q214	TR0196	2SD-668	
Q215	TR0192	2SB-648	
Q216	TF0020	2SK-163-L-PAIR	
		(Relay, PCB Board)	
RY201	AY0025	RZ-24 (24V)	
	PC1353	P C B Board	
		(Switch)	
S201	SP0173	Input Selector	
R216	RD0448	33 K 0.33 W RD	
R217	RD0473	270 0.33 W RD	
R218	RD0480	68 0.33 W RD	
R220	RS1232	120 0.33 W Rf	
R221	RD0448	33 K 0.33 W RD	
R222	RD0439	180 K 0.33 W RD	
R223	RD1540	18 0.5 W RD	
R224	RD1540	18 0.5 W RD	
R225	RD0139	100 0.5 W RD	
R226	RD0437	270 K 0.33 W RD	
R227	RD2158	1.5 M 0.33 W RD	
R228	RD0454	10 K 0.33 W RD	
R230	RD0434	470 K 0.33 W RD	
R231	RD0447	39 K 0.33 W RD	

PB-1354 ····· (Flat, Tone Control) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Resistor) Unit: Ω	
R301	RD2170	4.7 M 0.33 W RD	
R302	RD0448	33 K 0.33 W RD	
R303	RD0466	1 K 0.33 W RD	
R304	RD0479	82 0.33 W RD	
R306	RD0479	82 0.33 W RD	
R307	RD0452	1.5 K 0.33 W RD	
R308	RS1281	100 0.33 W Rf	
R309	RD0448	33 K 0.33 W RD	
R310	RD2036	12 0.33 W RD	
R311	RS1273	47 0.33 W RD	
R312	RB0200	5.6 0.25 W RD	
R313	RD0430	1 M 0.33 W RD	
R314	RD0448	33 K 0.33 W RD	
R315	RD0448	33 K 0.33 W RD	
R317	RD0480	68 0.33 W RD	
		(Capacitor)	
C301	CQ1206	6800 PF 50 WV St	
C302	CQ2008	1 μF 125 WV Fi	
C303	CE0093	33 μF 35 WV El	
C304	CQ1201	560 PF 50 WV St	
C305	CM0159	10 PF 100 WV Mi	
C306	CE1970	220 μF 35 WV AR El	
C307	CE1970	220 μF 35 WV AR El	
C308	CQ2006	0.47 μF 125 WV Fi	
C309	CQ0283	8200 PF 50 WV St	
C310	CQ1338	0.047 μF 25 WV My	
C311	CQ0267	100 PF 50 WV St	
C312	CQ0071	100 PF 50 WV St	
C313	CQ0283	8200 PF 50 WV St	
C314	CQ1338	0.047 μF 25 WV My	
C315	CQ1201	560 PF 50 WV St	
C316	CQ1201	560 PF 50 WV St	
		(Diode)	
D301	TV0030	KB-265C4	
D302	TV0030	KB-265C4	
D303	TV0030	KB-265C4	
D304	TV0030	KB-265C4	
D305	TD0214	US-1035	
D308	TD0214	US-1035	
D309	TD0214	US-1035	
		(PCB Board)	
	PC1354	PB-1354	

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
R318	RS1232	120 0.33 W Rf	
R319	RD0448	33 K 0.33 W RD	
R320	RD0433	560 K 0.33 W RD	
R321	RD0440	150 K 0.33 W RD	
R322	RD1540	18 0.5 W RD	
R323	RD1540	18 0.5 W RD	
R325	RD0447	39 K 0.33 W RD	
R326	RD0454	10 K 0.33 W RD	
R327	RD0458	4.7 K 0.33 W RD	
R328	RD0431	820 K 0.33 W RD	
R329	RD0431	820 K 0.33 W RD	
R330	RD0461	2.7 K 0.33 W RD	
R331	RD0470	470 0.33 W RD	
R332	RD0448	33 K 0.33 W RD	
R333	RB0200	5.6 K 0.25 W RD	
		(FET, Transistor, IC)	
Q301	TF0020	2SK-163-L-PAIR	
Q302	TF0020	2SK-163-L-PAIR	
Q303	TF0020	2SK-163-L-PAIR	
Q304	TF0020	2SK-163-L-PAIR	
Q305	TR5005	2SA-970	
Q306	TR5005	2SA-970	
Q307	TR5005	2SA-970	
Q308	TR0236	2SC-2229	
Q309	TR0091	2SA-836	
Q310	TR0091	2SA-836	
Q311	TR0091	2SA-836	
Q312	TR0237	2SA-949	
Q313	TR0236	2SC-2229	
Q314	TR0196	2SD-668	
Q315	TR0192	2SB-648	
Q316	TC5010	IC. NJM4558DX 22V	
Q317	TC0180	IC. LF13741	
		(Potentiometer)	
VR301	RV0271	150 KΩ Ⓢ x 2	
VR302	RV0272	19 KΩ Ⓢ x 2	
		(Trimming Potentiometer)	
VR303	RT0009	10 KΩ B	
		(Switch)	
S301	SP0189	Switch 9150	

PB-1355·····(Protector, Mute, Regulator) C-300 only

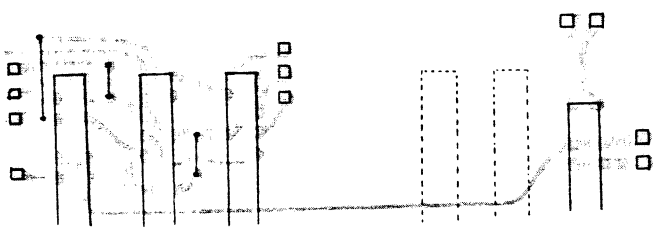


PB-1355 ·····(Protector, Mute, Regulator) C-300 only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK	SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
	(Capacitor)						
C1001	CK0159	0.1 μF 25 WV Ce		C408	CE1744	220 μF 35 WV El	
C1002	CK0159	0.1 μF 25 WV Ce		C409	CK0159	0.1 μF 25 WV Ce	
C101	CQ1214	1000 PF 50 WV St		C501ab	CE1996	470 μF 63 WV AR El	
C102	CQ1206	6800 PF 50 WV St		C502ab	CE1996	470 μF 63 WV AR El	
C103	CM0127	56 PF 500 WV Mi		C503ab	CE1996	470 μF 63 WV AR El	
C105	CQ1201	560 PF 50 WV St		C504ab	CE1996	470 μF 63 WV AR El	
C106	CQ2008	1 μF 125 WV Fi		C505ab	CE1996	470 μF 63 WV AR El	
C107	CQ1201	560 PF 50 WV St		C506ab	CE1996	470 μF 63 WV AR El	
C108	CQ1201	560 PF 50 WV St		C515ab	CE1979	22 μF 50 WV AR El	
C109	CE1963	470 μF 25 WV AR El		C516ab	CE1979	22 μF 50 WV AR El	
C112	CE0832	100 μF 25 WV El		C519	CE1725	1000 μF 16 WV El	
C113	CE1956	10 μF 25 WV AR El		C520	CE1722	220 μF 16 WV El	
C401	CE1710	47 μF 10 WV El		C521	CE1722	220 μF 16 WV El	
C402	CE1710	47 μF 10 WV El		C601	CE1719	33 μF 16 WV El	
C403	CE1727	47 μF 25 WV El		C602	CE1719	33 μF 16 WV El	
C404	CE1720	47 μF 16 WV El		C901	CQ2006	0.47 μF 125 WV Fi	
C405	CK0159	0.1 μF 25 WV Ce		C902	CQ2006	0.47 μF 125 WV Fi	
C406	CE1750	1 μF 50 WV El		C903	CQ2008	1 μF 125 WV Fi	
C407	CE1744	220 μF 35 WV El		C904	CQ1200	100 PF 50 WV St	
	(Resistor) Unit: Ω						
R1001	RD0430	1 M 0.33 W RD		R406	RD0454	10 K 0.33 W RD	
R1002	RD0430	1 M 0.33 W RD		R407	RD0433	560 K 0.33 W RD	
R102	RD0158	100 0.33 W RD		R408	RD0460	3.3K 0.33 W RD	
R103	RD2510	1 0.5 W RD		R409	RD0455	8.2K 0.33 W RD	
R104	RD0457	5.6 K 0.33 W RD		R410	RD0456	6.8K 0.33 W RD	
R105	RD0130	1.2 K 0.5 W RD		R411	RS5026	220 1 W RD	
R107	RD0468	680 0.33 W RD		R501ab	RD0449	27 K 0.33 W RD	
R108	RD0454	10 K 0.33 W RD		R502ab	RS1299	560 0.33 W Rf	
R109	RD0449	27 K 0.33 W RD		R503ab	RD0449	27 K 0.33 W RD	
R110	RD0459	3.9 K 0.33 W RD		R504ab	RS1299	560 0.33 W Rf	
R111	RD0489	10 0.33 W RD		R508ab	RD0450	22 K 0.33 W RD	
R112	RD0489	10 0.33 W RD		R509ab	RD0450	22 K 0.33 W RD	
R114	RD0140	47 0.5 W RD		R513	RS2746	560 1 W Ro	
R115	RD0452	15 K 0.33 W RD		R601	RD0451	18 K 0.33 W RD	
R116	RD0447	39 K 0.33 W RD		R602	RD0450	22 K 0.33 W RD	
R118	RD0447	39 K 0.33 W RD		R603	RD0464	1.5K 0.33 W RD	
R119	RD0442	100 K 0.33 W RD		R604	RD0458	4.7K 0.33 W RD	
R120	RD0477	120 0.33 W RD		R605	RD0430	1 M 0.33 W RD	
R401	RD0438	220 K 0.33 W RD		R606	RD0430	1 M 0.33 W RD	
R402	RD0438	220 K 0.33 W RD		R607	RS1269	33 0.33 W Ro	
R403	RD0440	150 K 0.33 W RD		R901	RD0446	47 K 0.33 W RD	
R404	RD0466	1 K 0.33 W RD		R902	RD0446	47 K 0.33 W RD	
R405	RD0458	4.7 K 0.33 W RD		R903	RD0449	27 K 0.33 W RD	
	(FET, Transistor)						
Q101	TF0018	2SK-147-BL		Q402	TR0029	2SC-945	
Q102	TF0018	2SK-147-BL		Q403	TR0029	2SC-945	
Q103	TR5004	2SC-2240		Q404	TR0029	2SC-945	
Q104	TR5005	2SA-970		Q405	TR0043	2SA-733	
Q105	TR0236	2SC-2229		Q406	TR0029	2SC-945	
Q106	TR0237	2SA-949		Q407	TR0264	2SC-2235	
Q107	TR0264	2SC-2235		Q408	TR0264	2SC-2235	
Q108	TR0263	2SA-965		Q501ab	TR0043	2SA-733	
Q401	TR0029	2SC-945					

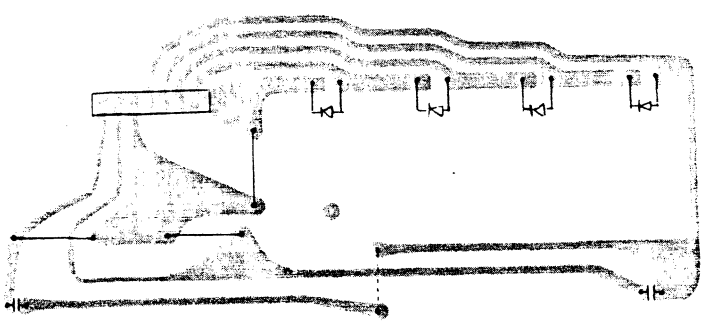
SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Diode)	
D401	TD0214	US-1035	
D402	TD0214	US-1035	
D403	TD0023	WZ-071 ZENER 7.1 V	
D404	TD0073	WG-713	
D405	TD0214	US-1035	
D406	TD0004	1N-4004	
D407	TD0004	1N-4004	
D408	TD0002	1N-4002	
D409	TD0085	WZ-230 ZENER 23 V	
D501ab	TD0215	UB-152	
		(Trimming Potentiometer)	
VR101	RT0023	4.7 KΩ B	
VR501ab	RT0009	10 KΩ B	
VR502ab	RT0009	10 KΩ B	
		(Relay)	
RY401	AY0025	RZ-24 (24V)	
		(PCB Board)	
	PC1355	PB-1355	

SYMBOL NO	STOCK NO	DESCRIPTION	REMAR
D504ab	TD0023	WZ-071 ZENER 7.1 V	
D505ab	TD0023	WZ-071 ZENER 7.1 V	
D506	TD0215	UB-152	
D507	TD0216	WZ-110 11 V	
D601	TD0214	US-1035	
D602	TD0214	US-1035	
D603	TD0018	1K-188 FM-1	
Q502ab	TV0030	KB-265C4	
Q503ab	TV0030	KB-265C4	
		(Switch, wire)	
S1001	SP0178	Slide, Tape Dubbing	
S1002	SP0178	Slide, Tape Dubbing	
S901	SP0177	Slide, Subsonic	



PB-1356 ····· (Tape Selector, Pre. Out. S

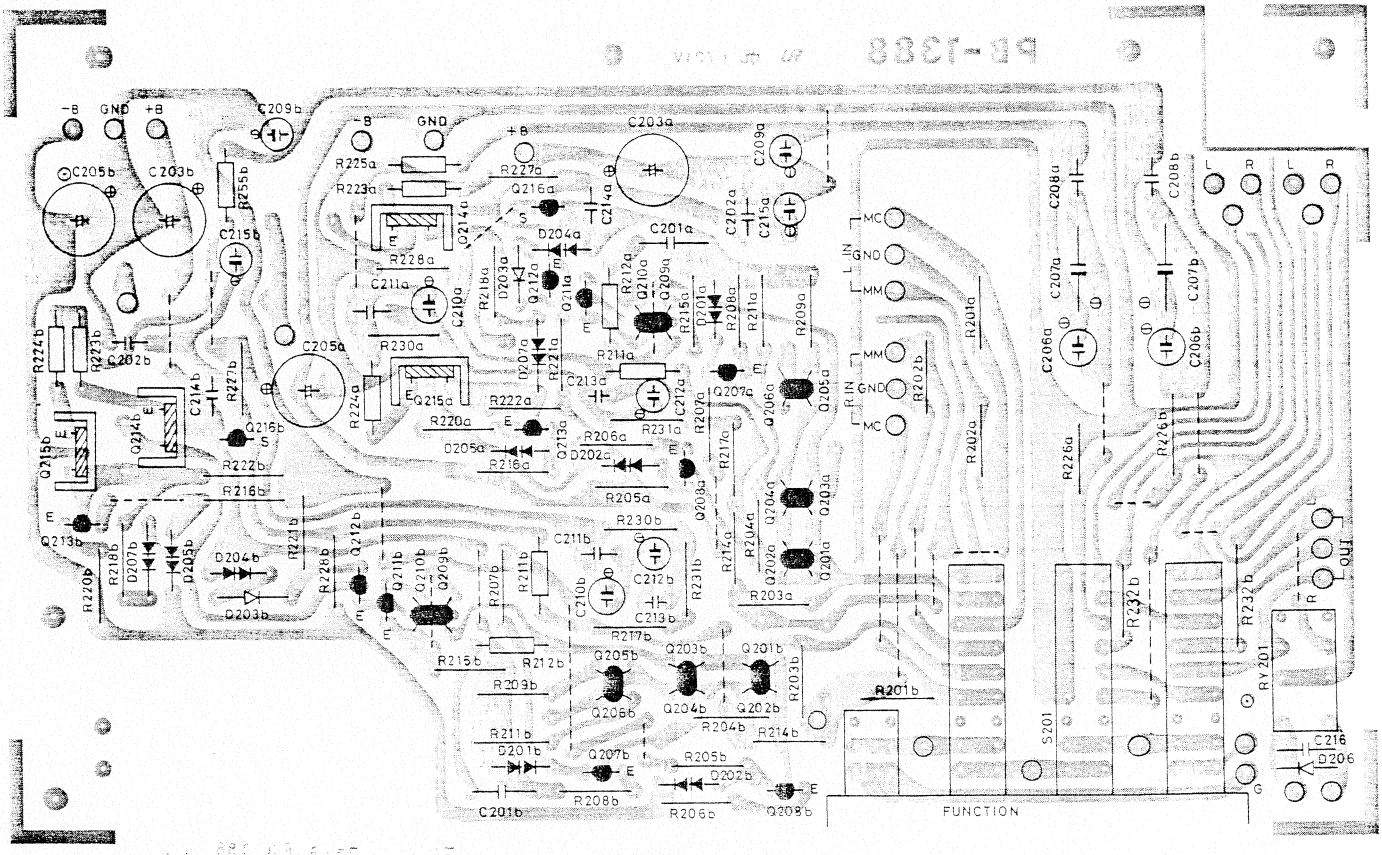
		(Switch, Resistor)	
S801~ S804	SP0175	Push Switch	
R1101	RD0466	1 KΩ 0.33 W RD	
R1102	RD0466	1 KΩ 0.33 W RD	
R1103	RD0466	1 KΩ 0.33 W RD	
		(PCB Board)	
	PC1356	PB-1356	



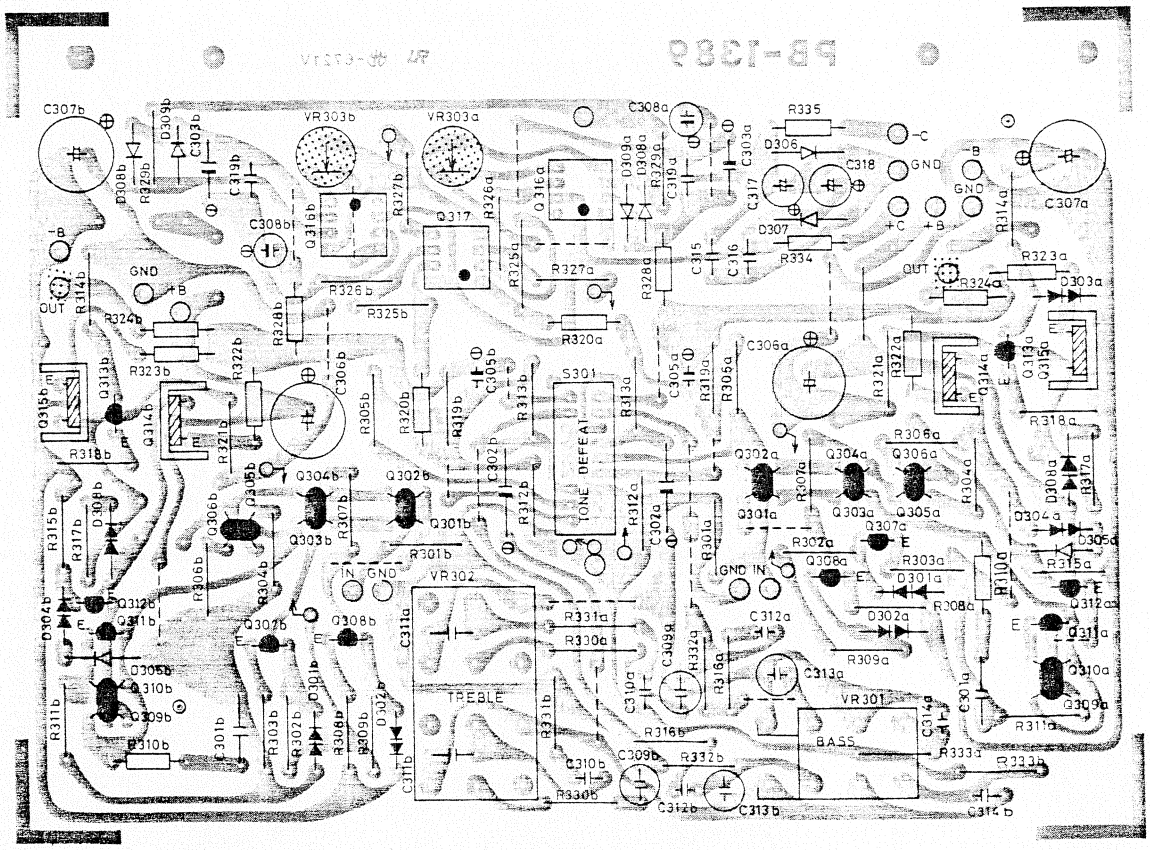
PB-1357 ····· (Indicator)

		(LED, Resistor)	
D1001	TD0222	LED, SEL1710K(Y) MC	
D1002	TD0222	LED, SEL1710K(Y)MC.Direct	
D1003	TD0223	LED, SEL1910A(A) Tuner	
D1004	TD0223	LED, SEL1910A(O) AUX	
D1005	TD0224	LED, SEL1110S(R) Signal	
D1006	TD0224	LED, SEL1110S(R) Rec.	
R1101	RD0466	1 KΩ 0.33 W RD	
R1102	RD0466	1 KΩ 0.33 W RD	
R1103	RD0466	1 KΩ 0.33 W RD	
		(PCB Board)	
	PC1357	PB-1357	

PB-1388 ····· (Equalizer) C-300KA Only



PB-1389 ····· (Flat, Tone Control) C-300 only



PB-1388 ····· (Equalizer) C-300KA Only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Capacitor)	
C201	CM0173	6800PF 50WV Mi	
C202	CM0168	560PF 50WV Mi	
C203	CE1970	220uF 35WV AR El	
C205	CE1970	220uF 35WV AR El	
C206	CE2045	4.7uF 50WV NXA El	
C207	CQ0697	1uF 100WV Fi	
C208	CM0168	560PF 50WV Mi	
C209	CM0171	100PF 50WV Mi	
C210	CQ1213	6200PF 50WV Sy	
C211	CM0172	680PF 50WV Mi	
C212	CQ1204	0.22uF 50WV Sy	
C213	CQ1200	100PF 50WV Sy	
C214	CM0168	560PF 50WV Mi	
C215	CE2046	2.2uF 50WV NXA El	
C216	CK0159	0.1uF 25WV Ce	
		(Diode)	
D202	TV0030	KB-265C4	
D203	TD0214	US-1035	
D204	TV0030	KB-265C4	
D205	TV0030	KB-265C4	
D206	TD0073	WG-713	
D207	TV0030	KB-265C4	
		(Resistor) Unit:Ω	
R201	RD0442	100K 1/3W Rd	
R202	RD0445	56K 1/3W Rd	
R203	RD0430	1M 1/3W Rd	
R204	RD0112	18K 1/2W Rd	
R205	RD0448	33K 1/3W Rd	
R206	RD0478	100 1/4W Rd	
R207	RD0448	33K 1/3W Rd	
R208	RD0466	1K 1/3W Rd	
R209	RD0479	820 1/3W Rd	
R210	RD0479	320 1/3W Rd	
R211	RD0113	15K 1/2W Rd	
R212	RDQ142	10 1/2W Rd	
R214	RB0180	820 1/4W Rd	
R215	RD0482	47 1/4W Rd	
R216	RD0448	33K 1/3W Rd	

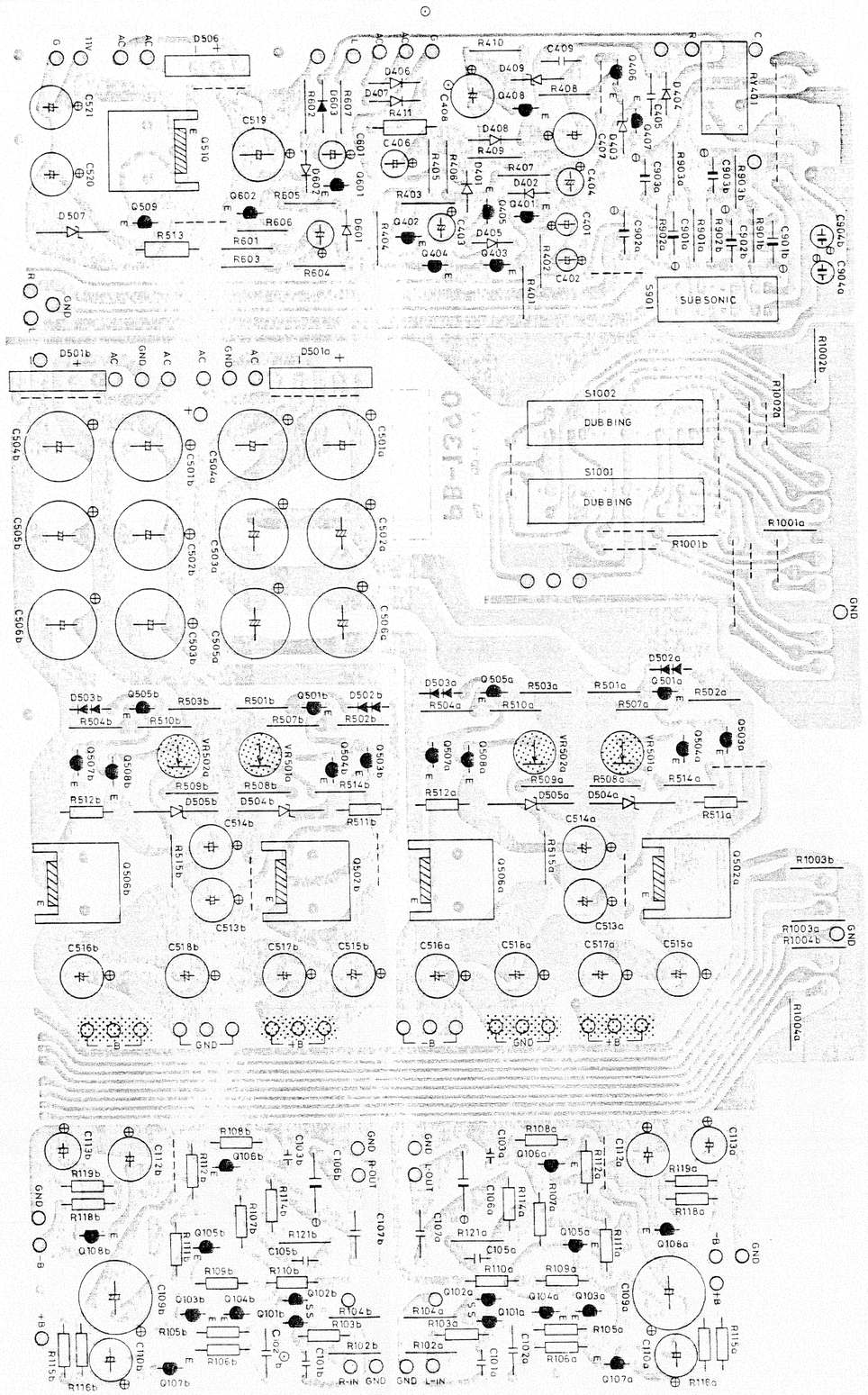
SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(FET, Transistor)	
Q201	TF0020	2SK-163-L-PAIR	
Q202	TF0020	2SK-163-L-PAIR	
Q203	TF0020	2SK-168-L-PAIR	
Q204	TF0020	2SK-163-L-PAIR	
Q205	TR5005	2SA-970	
Q206	TR5005	2SA-970	
Q207	TR5005	2SA-970	
Q208	TR0236	2SC-2229	
Q210	TR0091	2SA-836	
Q211	TR0091	2SA-836	
Q212	TR0237	2SA-949	
Q213	TR0236	2SC-2220	
Q214	TR0196	2SD-668	
Q215	TR0192	2SB-648	
Q216	TF0020	2SK-163-L-PAIR	
		(Relay, PCB Board)	
RY201	AY0025	RZ-24 (24V)	
	PC1388	PB-1388	
		(Switch)	
S201a~ 201g	SP0173	Input Selector	
R217	RD0474	220 1/3W Rd	
R218	RD0480	68 1/3W Rd	
R220	RD0477	120 1/4W Rd	
R221	RD0448	33K 1/3W Rd	
R223	RD1540	18 1/2W Rd	
R224	RD1540	18 1/2W Rd	
R225	RD0139	100 1/2W Rd	
R226	RD0437	270K 1/3W Rd	
R227	RD2160	1.8M 1/3W Rd	
R228	RD0454	10K 1/3W Rd	
R230	RD0434	470K 1/3W Rd	
R231	RD0447	39K 1/3W Rd	
R232	RD0448	33K 1/3W Rd	
R233	RD0484	33 1/3W Rd	

PB-1389 ····· (Flat, Tone Control) C-300KA Only

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Resistor) Unit:Ω	
R301	RD2170	4.7M 1/3W Rd	
R302	RD0448	33K 1/3W Rd	
R303	RD0466	1K 1/3W Rd	
R304	RD0479	82 1/3W Rd	
R305	RD0442	100K 1/3W Rd	
R306	RD0479	82 1/3W Rd	
R307	RD0112	18K 1/2W Rd	
R308	RD478	100 1/4W Rd	
R309	RD0448	33K 1/3W Rd	
R310	RD0142	10 1/2W Rd	
R311	RD0482	47 1/4W Rd	
R312	RB0200	5.6K 1/4W Rd	
R313	RD0430	1M 1/3W Rd	
R314	RD0448	33K 1/3W Rd	
R315	RD0448	33K 1/3W Rd	
R316	RD0481	56 1/3W Rd	
R317	RD0480	68 1/3W Rd	
R318	RD0477	120 1/4W Rd	
		(Capacitor)	
C301	CM0173	6800PF 50WV Mi	
C302	CQ2008	1uF 100WV Fi	
C303	CQ0693	0.22uF 100WV Fi	
C305	CM0159	10PF 100WV Mi	
C306	CE1970	220uF 35WV AR El	
C307	CE1970	220uF 35WV AR El	
C308	CE2046	2.2uF 50WV NXA El	
C309	CQ0283	8200PF 50WV Sy	
C310	CQ1338	0.47uF 50WV Mi	
C311	CQ0071	100PF 50WV Sy	
C312	CM0119	33PF 500WV Mi	
C313	CQ0283	8200PF 50WV Sy	
C314	CQ1338	0.47uF 50WV Mi	
C315	CM0168	560PF 50WV Mi	
C316	CM0168	560PF 50WV Mi	
C317	CE1763	10uF 63WV El	
C318	CE1763	10uF 63WV El	
C319	CM0168	560PF 50WV Mi	
		(Diode)	
D301	TV0030	KB-265C4	
D303	TV0030	KB-265C4	
D304	TV0030	KB-265C4	
D305	TD0214	US-1035	
D306	TD0109	WZ-150 ZENER 15V	
D307	TD0109	WZ-150 ZENER 15V	
D308	TV0030	KB-265C4	
D309	TD0214	US-1035	
D310	TD0214	US-1035	

SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
R319	RD0448	33K 1/3W Rd	
R320	RD0103	560K 1/2W Rd	
R321	RB0234	150K 1/4W Rd	
R322	RD1540	18 1/2W Rd	
R323	RD1540	18 1/2W Rd	
R324	RD0140	47 1/2W Rd	
R325	RD0447	39K 1/3W Rd	
R326	RD0206	10K 1/4W Rd	
R327	RB0198	4.7K 1/4W Rd	
R328	RD0105	220K 1/2W Rd	
R329	RD0438	220K 1/3W Rd	
R330	RD0461	2.7K 1/3W Rd	
R331	RD0470	470 1/3W Rd	
R332	RD0448	33K 1/3W Rd	
R333	RB0200	5.6K 1/4W Rd	
R334	RD0117	4.7K 1/2W Rd	
R335	RD0117	4.7K 1/2W Rd	
		(FET, Transistor, IC)	
Q301	TF0020	2SK-163-L-PAIR	
Q302	TF0020	2SK-163-L-PAIR	
Q303	TF0020	2SK-163-L-PAIR	
Q304	TF0020	2SK-163-L-PAIR	
Q305	TR5005	2SA-970	
Q306	TR5005	2SA-970	
Q307	TR5005	2SA-970	
Q308	TR0236	2SC-2229	
Q309	TR0091	2SA-836	
Q310	TR0091	2SA-836	
Q311	TR0091	2SA-836	
Q312	TR0237	2SA-949	
Q313	TR0236	2SC-2229	
Q314	TR0196	2SD-668	
Q315	TR0192	2SB-648	
Q316	TC0180	LF-13741	
Q317	TC5010	NJM4558DX	
		(Potentiometer)	
VR301	RV0271	150K Sx2	
VR302	RV0272	19K Sx2	
		(Trimming Potentiometer)	
VR303	RT0009	10KΩ B SR19R	
		(Switch, PCB Board)	
S301ab	SP0269		
	PC1389	PB-1389	

PB-1390·····(Protector, Mute, Regulator)

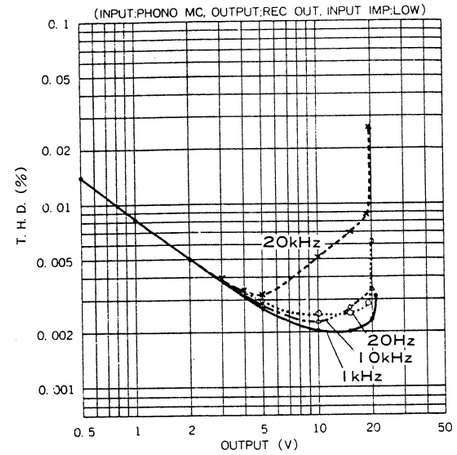


SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Capacitor)	
C101	CM0175	1000 PF 500 WV Mi	
C102	CM0173	6800 PF 500 WV Mi	
C103	CM0127	56 PF 500 WV Mi	
C105	CM0168	560 PF 100 WV Mi	
C106	CQ0697	1 μF 100 WV Fi	
C107	CM0174	2200 PF 500 WV Mi	
C109	CE1963	470 μF 25 WV AR El	
C110	CE1981	47 μF 50 WV AR El	
C112	CE1743	100 μF 35 WV El	
C113	CE1956	10 μF 25 WV AR El	
C401	CE1710	47 μF 10 WV El	
C402	CE1710	47 μF 10 WV El	
C403	CE1727	4.7 μF 25 WV El	
C404	CE1720	47 μF 16 WV El	
C405	CK0159	0.1 μF 25 WV Ce	
C406	CE1750	1 μF 50 WV El	
C407	CE1744	220 μF 35 WV El	
C408	CE1744	220 μF 35 WV El	
C409	CK0159	0.1 μF 25 WV Ce	
C501ab	CE2047	470 μF 63 WV NXA El	
C502ab	CE2047	470 μF 63 WV NXA El	
C503ab	CE2047	470 μF 63 WV NXA El	
C504ab	CE2047	470 μF 63 WV NXA El	
C505ab	CE2047	470 μF 63 WV NXA El	
C506ab	CE2047	470 μF 63 WV NXA El	
C513ab	CE1979	22 μF 50 WV AR El	
C514ab	CE1979	22 μF 50 WV AR El	
C515ab	CE1979	22 μF 50 WV AR El	
C516ab	CE1979	22 μF 50 WV AR El	
C517ab	CE1744	220 μF 35 WV El	
C518ab	CE1743	100 μF 35 WV El	
C519	CE1725	1000 μF 16 WV El	
C520	CE1722	220 μF 16 WV El	
C521	CE1722	220 μF 16 WV El	
C601	CE1719	33 μF 16 WV El	
C602	CE1719	33 μF 16 WV El	
C901	CQ2006	0.47 μF 125 WV Fi	
C902	CQ2006	0.47 μF 125 WV Fi	
C903	CQ2008	1 μF 125 WV Fi	
C904	CQ1200	100 PF 50 WV Sy	
		(Diode)	
D401	TD0214	US-1035	
D402	TD0214	US-1035	
D403	TD0023	WZ-071 ZENER 7.1V	
D404	TD0073	WG-713	
D405	TD0214	US-1035	
D406	TD0004	IN-4004	
D407	TD0004	IN-4004	
D408	TD0002	IN-4002	
D409	TD0085	WZ-230 ZENER 23V	
D501ab	TD0215	UB-152	
D502ab	TV0030	KB-265C4	
D503ab	TV0030	KB-265C4	
D504ab	TD0024	WZ-081 ZENER 8.1V	
D505ab	TD0024	WZ-081 ZENER 8.1V	
D506	TD0215	UB-152	
C507	TD0216	WZ-110 ZENER 11V	
D601	TD0214	US-1035	
D602	TD0214	US-1035	
D603	TD0018	1K-188FM-1	
		(FET, Transistor)	
Q101	TF0018	2SK-147-BL	
Q102	TF0018	2SK-147-BL	
Q103	TR5004	2SC-2240	
Q104	TR5005	2SA- 970	
Q105	TR0236	2SC-2229	
Q106	TR0237	2SA- 949	
Q107	TR0264	2SC-2235	
Q108	TR0263	2SA- 965	
Q401	TR0029	2SC- 945	
Q402	TR0029	2SC- 945	
Q403	TR0029	2SC- 945	
Q404	TR0029	2SC- 945	
Q405	TR0043	2SA- 733	
Q406	TR0029	2SC- 945	
Q407	TR0264	2SC-2235	
Q408	TR0264	2SC-2235	
Q501ab	TR0043	2SA- 733	
Q502ab	TR0121	2SC-1626	
Q503ab	TR0029	2SC- 945	
Q504ab	TR0029	2SC- 945	
Q505ab	TR0029	2SC- 945	
Q506ab	TR0122	2SA- 816	
Q507ab	TR0043	2SA- 733	
Q508ab	TR0043	2SA- 733	
Q509	TR0029	2SC- 945	
Q510	TR0173	2SD- 526	
Q601	TR0029	2SC- 945	
Q602	TR0029	2SC- 945	

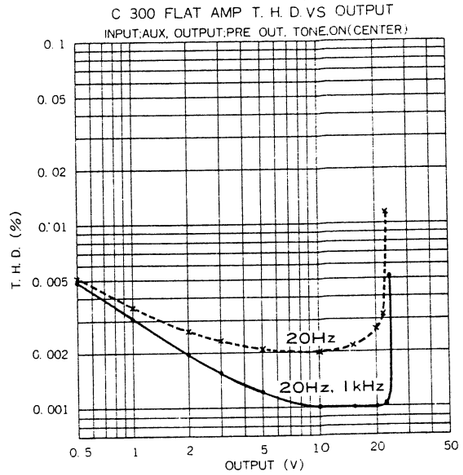
SYMBOL NO	STOCK NO	DESCRIPTION	REMARK
		(Resistor)	
R1001	RD0430	1M 1/3W Rd	
R1002	RD0430	1M 1/3W Rd	
R102	RB0158	100 1/4W Rd	
R103	RD1510	1 1/2W Rd	
R104	RB0128	5.6 1/4W Rd	
R105	RD0354	1K 1/2W Rd	
R106	RD0290	82 1/2W Rd	
R107	RD0132	680 1/2W Rd	
R108	RD0115	10K 1/2W Rd	
R109	RD0113	15K 1/2W Rd	
R110	RD0114	12K 1/2W Rd	
R111	RD0142	10 1/2W Rd	
R112	RD0142	10 1/2W Rd	
R114	RD0140	47 1/2W Rd	
R115	RD0113	15K 1/2W Rd	
R116	RD0110	39K 1/2W Rd	
R118	RD0110	39K 1/2W Rd	
R119	RD0106	100K 1/2W Rd	
R121	RD0477	120 1/4W Rd	
R401	RD0438	220K 1/3W Rd	
R402	RD0438	220K 1/3W Rd	
R403	RD0440	150K 1/3W Rd	
R404	RD0466	1K 1/3W Rd	
R405	RD0458	4.7K 1/3W Rd	
R406	RD0454	10K 1/3W Rd	
R407	RD0433	560K 1/3W Rd	
R408	RD0460	3.3K 1/3W Rd	
R409	RD0455	8.2K 1/3W Rd	
R410	RD0456	6.8K 1/3W Rd	
R411ab	RS5026	220 1/3W Rd	
R501ab	RD0448	33K 1/3W Rd	
R502ab	RD0469	560 1/4W Rd	
R503ab	RD0448	33K 1/3W Rd	
R504ab	RD0469	560 1/4W Rd	
R507ab	RD0439	180K 1/3W Rd	
R508ab	RD0450	22K 1/3W Rd	
R509ab	RD0450	22K 1/3W Rd	
R510ab	RD0437	270K 1/3W Rd	
R511ab	RD0113	15K 1/2W Rd	
R512	RD0113	15K 1/2W Rd	
R513	RS2746L	560 1W Ro	
R514ab	RD0443	82K 1/3W Rd	
R515ab	RD0443	82K 1/3W Rd	
R601	RD0451	18K 1/3W Rd	
R602	RD0450	22K 1/3W Rd	
R603	RD0464	1.5K 1/3W Rd	
R604	RD0458	4.7K 1/3W Rd	
R605	RD0430	1M 1/3W Rd	
R606	RD0430	1M 1/3W Rd	
R607	RS1441	330 1/3W Ro	
R901	RD0446	47K 1/3W Rd	
R902	RD0446	47K 1/3W Rd	
R903	RD0449T	27K 1/3W Rd	
		(Switch)	
S1001	SP0178	Slide, Tape Dubbing	
S1002	SP0178	Slide, Tape Dubbing	
S901	SP0177	Slide, Subsonic	
		(Trimming Potentiometer)	
VR501ab	RT0009	10KΩB SR19R	
VR502ab	RT0009	10KΩB SR19R	
		(PCB Board)	
	PC1390	PB-1390	
		(Relay)	
RY401	AY0025	RZ-24 24V	

STANDARD CURVES

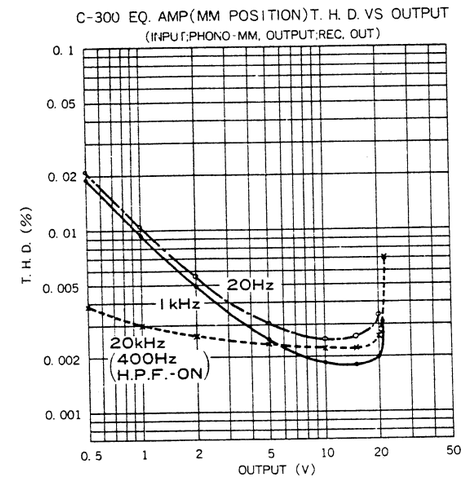
C 300 EQ. AMP(MC POSITION)T. H. D. VS OUTPUT
(INPUT:PHONO MC, OUTPUT:REC OUT, INPUT IMP:LOW)



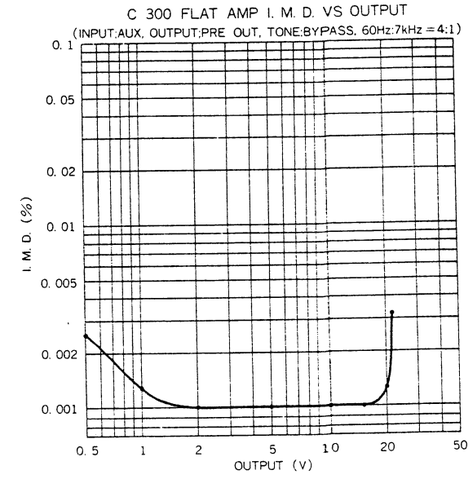
C 300 FLAT AMP T. H. D. VS OUTPUT
INPUT:AUX, OUTPUT:PRE OUT, TONE:ON(CENTER)

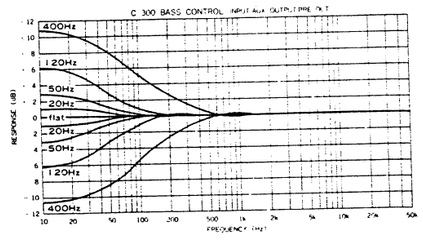


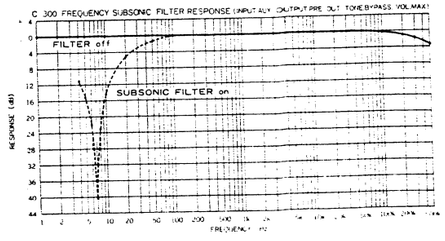
C-300 EQ. AMP(MM POSITION)T. H. D. VS OUTPUT
(INPUT:PHONO-MM, OUTPUT:REC. OUT)

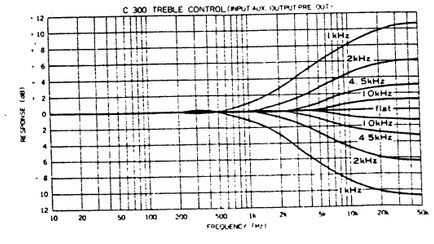


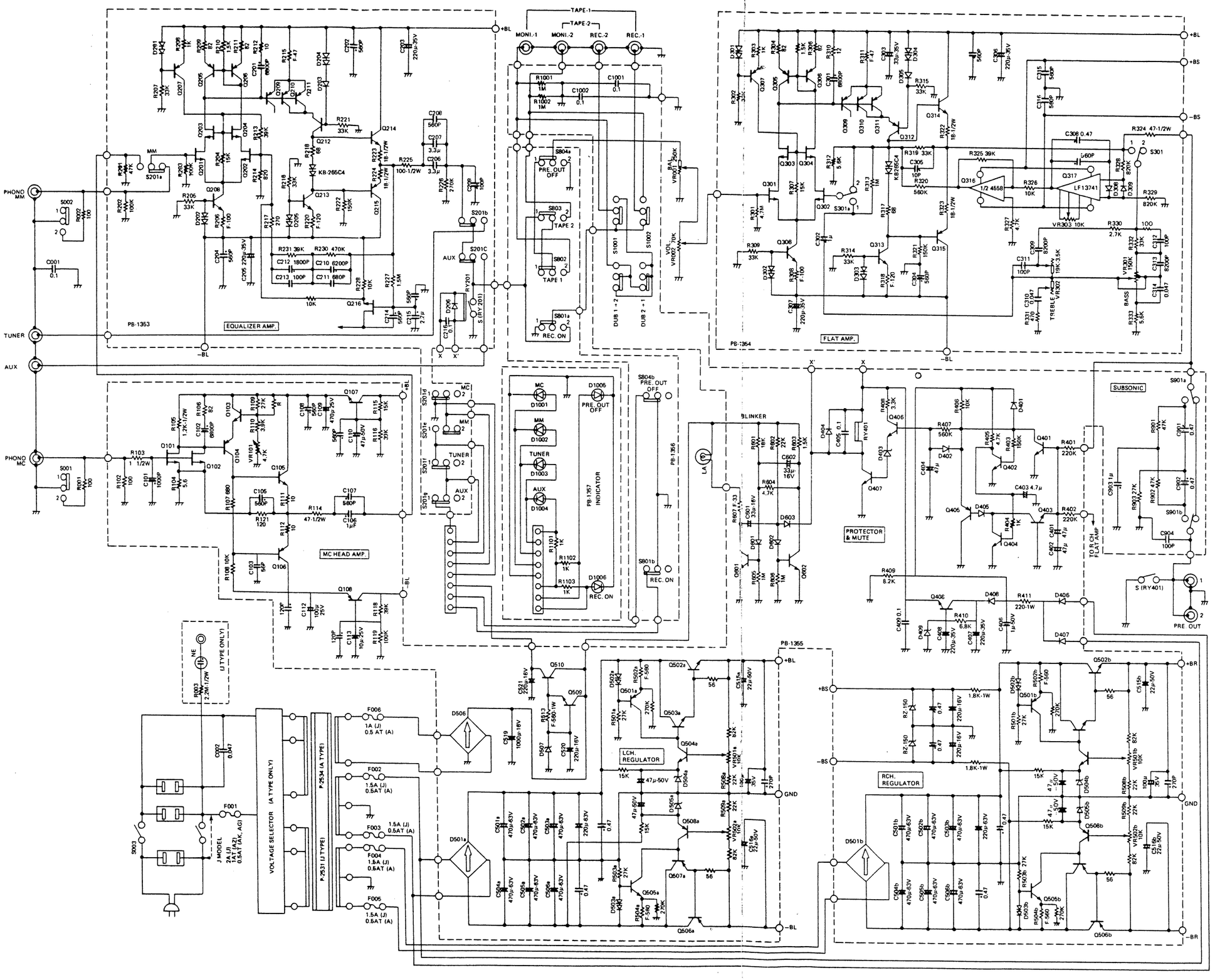
C 300 FLAT AMP I. M. D. VS OUTPUT
(INPUT:AUX, OUTPUT:PRE OUT, TONE:BYPASS, 60Hz:7kHz = 4:1)











TRANSISTORS & IC

Q101, Q102	RSK147,	Q103	2SC2240
Q104	2SA970,	Q105	2SC2229
Q106	2SA949,	Q107	2SC2235
Q108	2SA985		
Q201 ~ Q204	2SK163,	Q205 ~ Q207	2SA970
Q208	2SC2229	Q209 ~ Q211	2SA836
Q212	2SA949	Q213	2SC2229
Q214	2SD668	Q215	2SB648
Q216	2SK163		
Q301 ~ Q304	2SK163	Q305 ~ Q307	2SA970
Q308	2SC2229	Q309 ~ Q311	2SA836
Q312	2SA949	Q313	2SC2229
Q314	2SD668	Q315	2SB648
Q316	LF-13741	Q317	NJM4558DX
Q401 ~ Q404	2SC945	Q405	2SA733
Q406	2SC945	Q407, Q408	2SC2235
Q501	2SA733	Q502	2SC1626
Q503 ~ Q505	2SC945	Q506	2SA816
Q507, Q508	2SA733	Q509	2SC945
Q510	2SD526		
Q601, Q602	2SC945		

DIODES

D201, D202	KB-265C4	D203	US1035
D204, D205	KB-265C4	D206	WG-713
D301 ~ D304	KB-265C4	D305	US1035
D308, D309	US1035		
D401, D402	US1035	D403	WZ-071
D404	WG-713	D405	US1035
D406, D407	IN4004	D408	IN4002
D409	WZ-230		
D501	UB-152	D502 D503	KB-265C4
D504 D505	WZ-071	D506	UB-152
D507	WZ-110		
D601, D602	US1035	D603	1K188FM-1
D1001, D1002	SEL1710K (YELLOW)		
D1003 D1004	SEL1910A (ORANGE)		
D1005 D1006	SEL1110S (RED)		

SWITCHES

S001 .... MC PHONO IMPEDANCE (1. HIGH 2. LOW)
S002 .... MM PHONO IMPEDANCE (1. 50kΩ 2. 100Ω)
S201 .... FUNCTION (AUX TUNER MM MC)
S301 .... TONE BYPASS (1. OFF 2. TONE BYPASS)
S801 .... RECORDING SW (1. OFF 2. REC ON)
S802 .... TAPE MONITOR-1 (1. SOURCE 2. MONITOR 1)
S803 .... TAPE MONITOR-2 (1. SOURCE 2. MONITOR-2)
S804 .... PRE OUT OFF (1. OFF 2. PRE OUT OFF)
S1001 ... TAPE DUBBING (1. SOURCE 2. DUB. 1 →2)
S1002 ... TAPE DUBBING (1. SOURCE 2. DUB. 2 →1)
S003 .... POWER

VARIABLE RESISTORS

VR101 ... FOR MC HEAD AMP DC OFFSET ADJ.
VR303 ... FOR FLAT AMP DC OFFSET ADJ.
VR501 ... FOR VOLTAGE ADJ.
VR502 ... FOR VOLTAGE ADJ.
VR301 ... FOR TONE CONTROL BASS
VR302 ... FOR TONE CONTROL TREBLE
VR001 ... FOR BALANCE CONTROL
VR002 ... FOR VOLUME CONTROL

FUSES

F001 ..... 2A (J TYPE)	F002 ..... 1.5A (J TYPE)
F001 ..... 1AT (AZ TYPE)	F002 ..... 0.5AT (A TYPE)
F001 ..... 0.5AT (AK, AG TYPE)	
F003 ..... 1.5A (J TYPE)	F004 ..... 1.5A (J TYPE)
F003 ..... 0.5AT (A TYPE)	F004 ..... 0.5AT (A TYPE)
F005 ..... 1.5A (J TYPE)	F006 ..... 1A (J TYPE)
F005 ..... 0.5AT (A TYPE)	F006 ..... 0.5AT (A TYPE)

1. UNLESS OTHERWISE SPECIFIED. ALL RESISTOR ARE IN OHM 1/4 WATT. ALL CAPACITOR ARE IN MICRO FARAD.
2. TRANSISTOR AND DIODES MAY BE REPLACED WITH ANY TYPE HAVING COMPARABLE RATINGS.
3. DUE TO CONTINUED IMPROVEMENT LUX RESERVE THE CIRCUIT OR SPECIFICATION.

C-300

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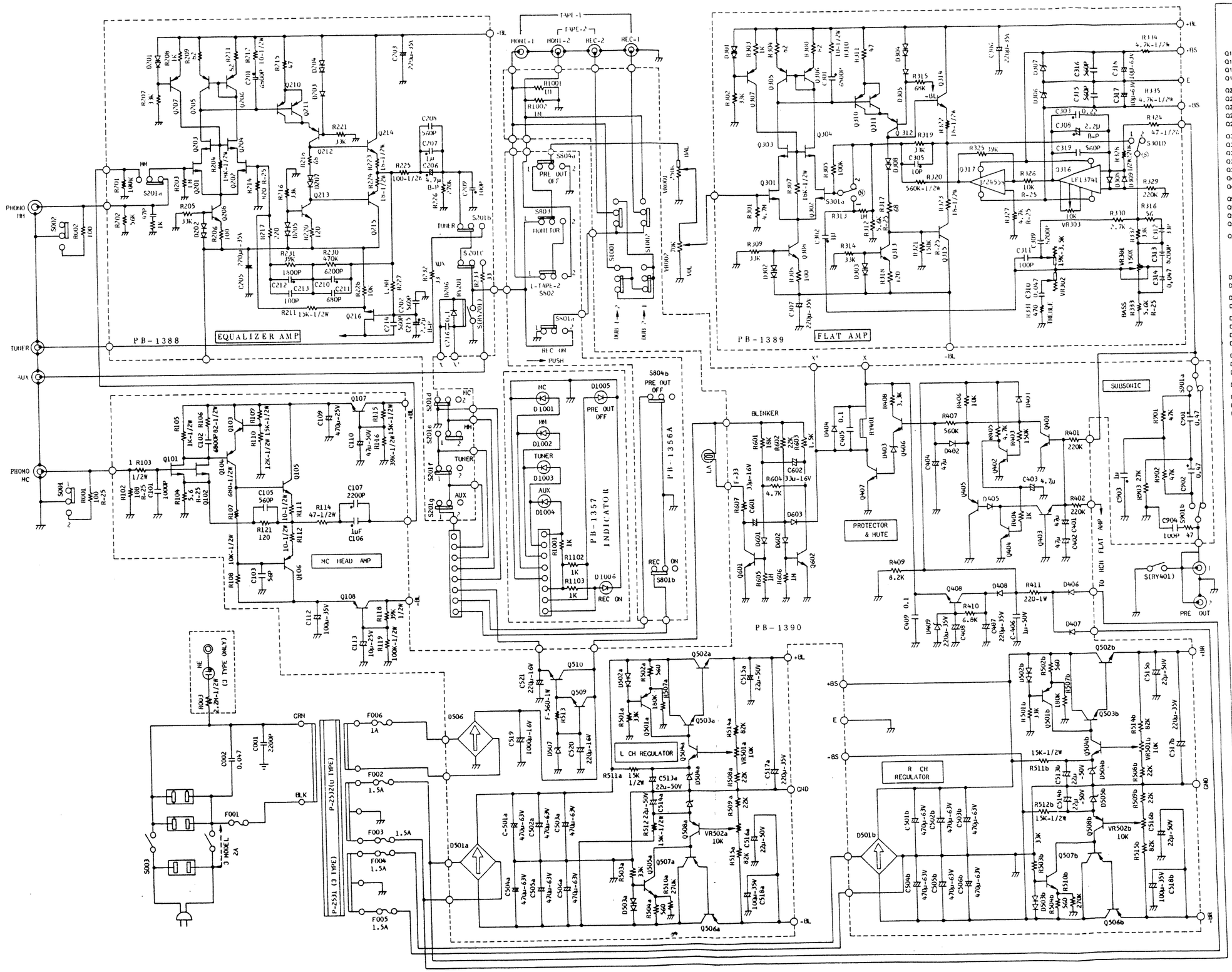

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Q208	2SC2229	Q210 ~ Q211	2SA836
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Q216	2SK163		
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Q312	2SA949	Q313	2SC2229
Q314	2SD668	Q315	2SB648
Q316	LF 13741	Q317	NJM4558DX
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Q406	2SC945	Q407, Q408	2SC2235
Q501	2SA733	Q502	2SC1626
Q503 ~ Q506	2SC945	Q506	2SA816
Q507, Q508	2SA733	Q509	2SC945
Q510	2SD526		
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D309	US1035	D306 D307	WZ-150
D401, D402	US1035	D403	WZ-071
D404	WG-713	D405	US1035
D406, D407	IN4004	D408	IN4002
D409	WZ-230		
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D504 D505	WZ-081	D506	UB-152
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S802	TAPE MONITOR (1. MONITOR 1 2. MONITOR 2)
S803	TAPE MONITOR (1. SOURCE 2. MONITOR)
S804	PRE OUT OFF (1. OFF 2. PRE OUT OFF)
S1001	TAPE DUBBING (1. SOURCE 2. DUB. 1 -2)
S1002	TAPE DUBBING (1. SOURCE 2. DUB. 2 -1)
S003	POWER

VARIABLE RESISTORS

VR303	FOR FLAT AMP DC OFFSET ADJ.
VR501	FOR VOLTAGE ADJ.
VR502	FOR VOLTAGE ADJ.
VR301	FOR TONE CONTROL BASS
VR302	FOR TONE CONTROL TREBLE
VR001	FOR BALANCE CONTROL
VR002	FOR VOLUME CONTROL

FUSES

F001	2A	F002	1.5A
F003	1.5A	F004	1.5A
F005	1.5A	F006	1A

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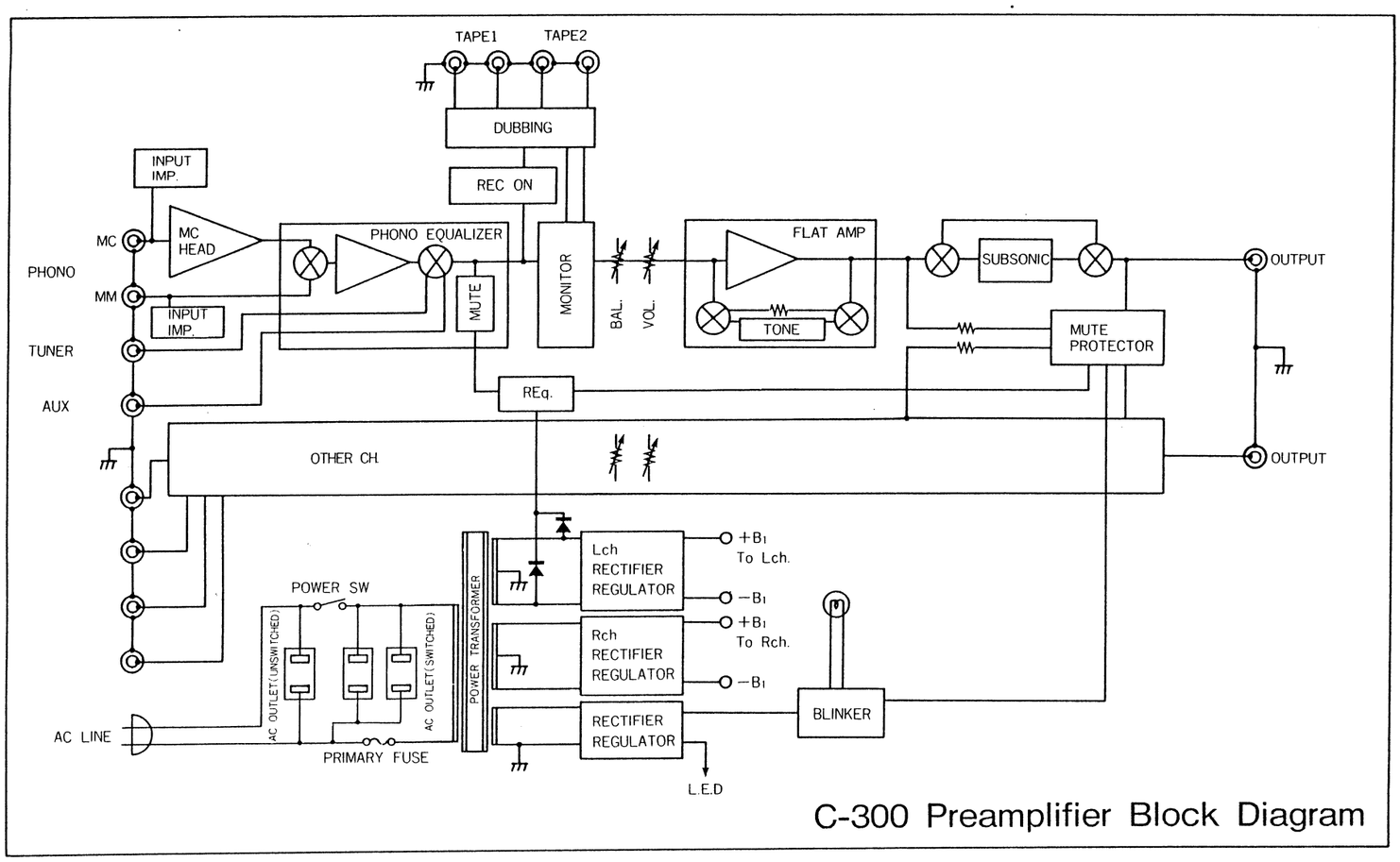
2. TRANSISTOR AND DIODES MAY BE REPLACEDWITH ANY TYPE HAVING COMPARABLE RATINGS.
3. DUE TO CONTINUED IMPROVEMENT LUX RESERVE THE CIRCUIT OR SPECIFICATION.

C-300KA

Printed in Japan



C-300 Preamplifier Block Diagram

SPECIFICATIONS

Output Voltage:	pre out;	rated 1V, max 20V
	rec. out;	rated 140mV, max 20V
Output Impedance:	pre out;	47 ohms
	rec. out;	100 ohms
Total Harmonic Distortion:	phono (MM, MC);	no more than 0.005% (rec. out; 140mV, 20–20kHz)
	tuner, aux;	no more than 0.005% (pre. out; 1V, 20–20kHz)
	monitor-1, -2;	no more than 0.005% (pre. out; 1V, 20–20kHz)
Rated I.M.:	phono (MM, MC);	no more than 0.002% (rec. out; 140mV, 60Hz : 7kHz=4:1)
	tuner, aux;	no more than 0.002% (pre. out; 1V, 60Hz: 7kHz=4:1)
	monitor-1, -2;	no more than 0.002% (pre.out; 1V, 60Hz:7kHz=4:1)
Frequency Response:	phono;	20Hz–20,000Hz (±0.2dB)
	tuner, aux;	0.5Hz–140,000Hz (-0.5dB)
	monitor-1, -2;	0.5Hz–140,000Hz (-0.5dB)
Input Sensitivity:	phono (MC);	0.09mV
(pre. out; 1V)	phono (MM);	2.0mV
	tuner, aux;	140mV
	monitor-1, -2;	140mV
Input Impedance:	phono (MC);	high (100 ohms), low (50 ohms)
	phono (MM);	MM (50k ohms), MC (100 ohms)
	tuner, aux;	55k ohms
	monitor-1, -2;	55k ohms
Signal-to-Noise Ratio:	phono (MC);	−148dB/V (input-inverted)
(IHF-A wtd, input short-circuited)	phono (MM);	80dB
	tuner, aux;	100dB
	monitor-1, -2;	100dB
Additional Features:	MC Impedance Selector, MM, MC direct Impedance Selector, Tone Bypass Switch, Tone Control (frequency shift type), REC. OUT Switch, Dual Tape Monitoring, Tape Dubbing, etc.	
Power Consumption:	25W	
Dimensions:	478(W) x 163(H) x 384(D) mm (Wood) (19.1" x 6.5" x 15.4")	
Weight:	Net 9 kgs (19.8 lbs.)	

Specifications and appearance design subject to change without notice.